Abstract

An oscilloscope that is capable of displaying simultaneously multiple waveforms

representing time evolution of a signal during respective acquisition intervals acquires

waveform data using a first set of acquisition parameters and generates a display based on

that waveform data. If the display includes a waveform that is visually distinct from other

displayed waveforms, the user selects a feature that distinguishes the visually distinct

waveform from other displayed waveforms. The oscilloscope automatically derives updated

acquisition parameters that discriminate between the selected feature and other features of

the displayed waveforms. The oscilloscope then acquires waveform data using the updated

acquisition parameters and generates a display based on that waveform data.